

IFWO

RAW SEQUENCE LISTING

DATE: 08/04/2004

PATENT APPLICATION: US/10/828,343

TIME: 12:30:01

Input Set : N:\Crf3\RULE60\10828343.raw Output Set: N:\CRF4\08042004\J828343.raw

SEQUENCE LISTING

```
1 (1) GENERAL INFORMATION:
              (i) APPLICANT: FLECKENSTEIN, Bernhard
      3
                             ALBRECHT, Jens-Christian
      4
                             NEIPEL, Frank
      5
                             FRIEDMAN-KIEN, Alvin
      6
                             HUANG, Yao-Qi
      7
            (ii) TITLE OF INVENTION: VIRAL INTERLEUKIN-6
           (iii) NUMBER OF SEQUENCES: 4
      9
            (iv) CORRESPONDENCE ADDRESS:
                                                                 ENTERED
     10
                   (A) ADDRESSEE: FOLEY & LARDNER
     11
                   (B) STREET: 3000 K Street, N.W.
     12
                   (C) CITY: Washington
     13
                   (D) STATE: D.C.
     14
                   (E) COUNTRY: U.S.A.
     15
                   (F) ZIP: 20007-5109
             (v) COMPUTER READABLE FORM:
     17
                   (A) MEDIUM TYPE: Floppy disk
     18
                   (B) COMPUTER: IBM PC compatible
                   (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     19
     20
                   (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     21
            (vi) CURRENT APPLICATION DATA:
C--> 22
                   (A) APPLICATION NUMBER: US/10/828,343
C--> 23
                   (B) FILING DATE: 21-Apr-2004
     24
                   (C) CLASSIFICATION:
C--> 29
           (vii) PRIOR APPLICATION DATA:
     26
                   (A) APPLICATION NUMBER: US/09/230,048
     27
                   (B) FILING DATE: 12-Mar-1999
     30
                   (A) APPLICATION NUMBER: WO PCT/EP96/03199
     31
                  (B) FILING DATE: 19-JUL-1996
C--> 32
          (viii) ATTORNEY/AGENT INFORMATION:
     33
                  (A) NAME: Granados, Patricia D.
     34
                  (B) REGISTRATION NUMBER: 33,683
     35
                  (C) REFERENCE/DOCKET NUMBER: 058315/0129
C--> 36
            (ix) TELECOMMUNICATION INFORMATION:
     37
                  (A) TELEPHONE: (202) 672-5300
     38
                  (B) TELEFAX: (202) 672-5399
     39 (2) INFORMATION FOR SEQ ID NO: 1:
     40
             (i) SEQUENCE CHARACTERISTICS:
     41
                  (A) LENGTH: 612 base pairs
     42
                  (B) TYPE: nucleic acid
     43
                  (C) STRANDEDNESS: double
     44
                  (D) TOPOLOGY: linear
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45 46		(ii) (ix)				PE:	DNA	(gen	omic)								
47		(/		(A) NAME/KEY: CDS														
48				(B) LOCATION: 1612														
49		(xi)		SEQUENCE DESCRIPTION: SEQ ID NO: 1:														
50											TTG	СТС	GTC	GGT	тСΔ	СТС	CTG	48
51											Leu							-10
52		1	O ₁ D			5		115	501	шец	10	шец	• • • •	OL y	JCI	15	пец	
53			тст	GGA	ACG	_	GGC	AAG	TTG	CCG	GAC	GCC	כככ	GAG	ффф		ΔAG	96
54											Asp							90
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56		GAT	СТТ	СТС		CAG	AGA	CTC	דעע		ATG	СТА	тсс	стс		СΔТ	GAA	144
57											Met							777
58			200	35		0111	5	Leu	40		ricc	шец		45	110	тор	Oru	
59		TGC	ጥጥር		GAC	CTC	тст	TAC		ΔCC	GGC	ΔΤС	TCC		сст	עיייע	СТА	192
60											Gly							172
61		<i>-7-</i>	50				0,2	55	9		Q- <i>y</i>		60	טעב	CLY	110	пси	
62		GAG		GCT	GCT	ΔͲͲ	արդ		CTG	ααα	CTA	CCA		ΔͲϹ	ΔΔC	СΣТ	ልርጥ	240
63		_									Leu							240
64		65					70	1110	104	_,	Lcu	75	1114	110	11011	пор	80	
65			CAC	TGC	GGG	ΤΤΆ		GGA	արդու	דע ב	GAG		AGC	тсс	СТТ	Z Z Z		288
66											Glu							200
67				O _I D		85	110	017	1110	11011	90		DCI	Cyb	пси	95	цур	
68		СТС	GCC	GAT	GGC		ጥጥጥ	GAA	ጥጥር	GAG	GTG	ጥጥር	ىلىلىل	ΔΔG	יהיהים		ACG	336
69											Val							550
70					100			014		105				- 175	110	шец	1111	
71		ACG	GAG	ירידיי		ддд	тса	GTG	ΔΤΔ		GTG	GAC	GTC	ATG		Сфф	CTG	384
72		_	_		_						Val							204
73				115	1	-1-	~~-		120					125	014	200	200	
74		ACG	AAG		ТТА	GGA	TGG	GAC		CAG	GAA	GAG	CTC		AAG	CTG	АСТ	432
75											Glu							132
76			130			1		135					140		-1.			
77		AAG		CAC	TAC	AGT	CCA		AAA	TTT	GAC	CGC		CTA	TTA	GGG	AGG	480
78											Asp							
79		145			4		150		_1			155	1			1	160	
80		CTT	CAG	GGA	CTT	AAG	TAT	TGG	GTG	AGA	CAC		GCT	TCG	TTT	TAT		528
81											His							
82				•		165	-			3	170					175		
83		CTG	AGT	GCA	ATG	GAA	AAG	TTT	GCA	GGT	CAA	GCG	GTG	CGT	GTT		GAC	576
84											Gln							
85					180		•			185					190		L	•
86		TCT	ATC	CCA	GAC	GTG	ACT	CCT	GAC		CAC	GAT	AAG					612
87											His							-
88				195	_				200		-	1-						
90	(2)	INFOR	TAMS	ON E	OR S	SEO I	D NO): 2:										
91			SEQU															
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PATENT APPLICATION: US/10/828,343 TIME: 12:30:01

95		MOLEC			-					_							
96		SEQUE									. <u>.</u>						
97		Cys T	rp F	ne I		Leu T	rp s	er i	₋eu .		Leu \	/al (ary s	ser 1		eu	
98	1		٠ -	., .	. 5	., .	_	_		10				-1	15		
99	Val	Ser G	тЪ д		arg (3TA T	ys L	eu i		Asp A	Ala E	ro (ilu I		Glu L	ys	
100	_	_	_	20		_	_	_	_25		_			30		~-3	
101	Asp	Leu		He	GIn	Arg	Leu		Trp	Met	Leu	Trp		He	Asp	GIu	
102	_		35	_	_	_	_	40				_	45			_	
103	Cys	Phe .	Arg	Asp	Leu	Cys	_	Arg	Thr	GIY	Ile	_	Lys	Gly	Ile	Leu	
104		50					55	_	_	_	_	60		_	_		
105		Pro .	Ala	Ala	He		His	Leu	Lys	Leu		Ala	He	Asn	Asp		
106	_ 65		_		_	70			_		_75 `	_	_	_	_	80	
107	Asp	His	Cys	Gly		Ile	Gly	Phe	Asn		Thr	Ser	Cys	Leu		Lys	
108	_		_		85		-			90	_		_		95		
109	Leu	Ala.	Asp	_	Phe	Phe	Glu	Phe		Val	Leu	Phe	Lys		Leu	Thr	
110				100	_	_	_		105		_			110	_	_	
111	Thr	Glu		GIY	Lys	Ser			Asn	Val	Asp	Val		Glu	Leu	Leu	
112			115					120	-			_	125	_	_		
113	Thr	Lys	Thr	Leu	Gly	Trp	_	Ile	Gln	Glu	Glu		Asn	Lys	Leu	Thr	
114	_	130	•	_	_	_	135	_		_	_	140	_	_		_	
115	-	Thr	His	Tyr	Ser		Pro	Lys	Phe	Asp	_	GLY	Leu	Leu	GLY	_	
116	145		~-7	_	_	150	_		_		155	~ 7	_	-1	_	160	
117	Leu	Gln	Gly	Leu		Tyr	Trp	Val	Arg		Phe	Ala	Ser	Phe		Val	
118		_			165	_				170			_		175	_	
119	Leu	. Ser	Ala		GLu	Lys	Pne	Ala		GIn	Ala	Val	Arg		Leu	Asp	
120	_		_	180		1	_	_	185					190			
121	Ser	Ile		Asp	Val	Thr	Pro	_	Val	His	Asp	Lys					
122	(-)		195					200									
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131	(X1)	SEQU										. Dro	. 37-1	7.T.	n Dho	Cox	T 011
132		_	ASII	ser	PILE		THE	sei	AL	a Pile		PIC	val	LAIC	a Phe		пеп
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136		σтλ	GIU		ser	. тув	Asp	val		a Ali	z PIC	, uis	, ATC		n Pro	neu	TIIT
137		Com	0 ~ ~	35	71	, T7-	7. ~	T	40	יוד י	, 7\	, Tr	. тл-	45	, na-	C1	т1 ^
138		ser		GIU	HIĆ	, тте	Asp	ьуя 55	GII	т ттє	= MIG	TAT	60	- Het	ı Asp	GTÀ	116
139		C.~~	50	T 011	, λ~		<i>α</i> 1		- C	- 7\	1 T			n M∽+	- ('**	יונט	Ser
140			АТА	. теп	HIG	, пуѕ		IIII	СУ	o ASI	т гуў г		ASI	. Met	. Cys	GIU	80
141		65 Sor	T		. 7.7 -	. T	70 71 a	C1	7.~~	· 7·~~	1 T 0	75 . Acn	Tar	1 D~	\ T **~	Mot	
142		ser	ьys	GIU	L AL		AId	GIU	ASI	ı ASI		. ASI	шец	r P.T.(Lys	мес 95	AIA
143		Q1	T	7 ~		85 - Cra	Dh.a	~1		~ ~1-	90 • Dha	7	Q1	. (1)	, դոև		Len
144		GIU	ьys	Asp	, GTA	cys	rne	GIT	sei	. GT.	Pue	: ASN	GIU	ı GIL	ı Thr	CAR	ьeu

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145			77-7	T	Tla	100	ml	a1	T 011	T 011	105	Dho	C1.,	17a l	ጥኒኒን		Glu	Tree
146			vai	Lys		тте	TIII	GIY	ьец		GIU	PHE	Giu	vai	125	цец	Giu	ıyı
147			.	~1	115	7	Db -	~1	000	120	a1	~1.,	Cln	7 J ¬		777 =	₹7 2]	Cln
148			Leu	Gln	Asn	Arg	Pne	GIU		ser	GIU	GIU	GIII		Arg	на	vai	GIII
149				130		_		_	135	~7	_1		~ 1	140	T	3.7 -	T	3
150				Ser	Thr	Lys	Val		He	Gin	Phe	ьeu		ьys	гуѕ	Ата	гуѕ	
151			145			_		150					155	_		_	_	160
152			Leu	Asp	Ala	Ile	Thr	Thr	Pro	Asp	Pro		Thr	Asn	Ala	Ser		Leu
153							165					170				_	175	_
154			${ t Thr}$	Lys	Leu	Gln	Ala	Gln	Asn	Gln	Trp	Leu	Gln	Asp	Met		Thr	His
155						180					185					190		
156			Leu	Ile	Leu	Arg	Ser	Phe	Lys	Glu	Phe	Leu	Gln	Ser	Ser	Leu	Arg	Ala
157					195					200					205			
158			Leu	Arg	Gln	Met												
159				210														
161	(2)	INFO	RMATI	ON FO	OR SI	EQ II	ON C	: 4:										
162		(i)	SEQUI	ENCE	CHA	RACTI	ERIS'	rics	:									
163				LENG														
164			(B)	TYP	E: ar	nino	acio	f										
165			(C)		ANDEI													
166			, -	TOP				r										
167		(ii)	MOLE															
168		(xi)				_			O ID	NO:	4:							
169		(X1)										His	Pro	Val	Ala	Phe	Leu	Gly
170			1		1110	nea	5	1124	5			10		-			15	_
171				Met	T.011	17±1	Thr	Thr	Thr	Δla	Phe		Thr	Ser	Gln	Val		Ara
			цец	Mec	1100	20	1111				25					30	5	
172			Glaz	Asp	Dho		Glu	Δan	Thr	Thr		Δsn	Ara	Pro	Val		Thr	Thr
173			GIŸ	Hap	35	1111	GIU	пор	1111	40	110	11011	5		45	-1-		
174			Cor	Gln		C137	Clv	T.011	Tle		Hic	Val	T.e.11	Tro		Tle	Val	Glu
175			ser	50	vaı	Gry	Gry	пец	55	1111	1115	VUI	шец	60	OIU			
176			Mot	Arg	Tara	Glu	Lou	Care		G1 v	Δen	Ser	Acn		Met	Asn	Asn	Asp
177				Arg	пуъ	GIU	пеп	70	ASII	Gry	Apii	Ser	75	Cys	rice	71011	11011	80
178			65	Ala	т	77-	C1.,		7 an	T 011	Tarc	Leu		G3 11	Tla	Gln	Δra	
179			Asp	Ald	ьeu	Ala		ASII	ASII	цец	пуъ	90	FIO	Gia	110	OIII	95	11011
180				a 1	a		85 21-	шhъ	a1	Ш	7 an		C1.11	Tlo	Cvc	T 011		Tare
181			Asp	Gly	Cys		GIII	TILL	GIY	TAT		Gin	GIU	116	Cys	110	шси	шуы
182				•		100	Ŧ	T		m	105	Com	m	T 011	C1.,		Mot	Tare
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185			Asn		Leu	ьys	Asp	Asn		гàг	Asp	гйг	Ala		Val	цец	GIII	Arg
186				130	_		_		135			_	~1	140	7	.	3	T
187			Asp	Thr	Glu	Thr	Leu		His	IIe	Pne	Asn		GIU	vai	ьуs	Asp	Leu
188			145		. =		_	150		_		_	155	• •	-		ml · ·	160
189			His	Lys	Ile	Val		Pro	Thr	Pro	Ile		Asn	Ala	Leu	Leu		Asp
190							165					170		_			175	-1
191			Lys	Leu	Glu	Ser	Gln	Lys	Glu	Trp		Arg	Thr	Lys	Thr		Gln	Pne
192						180					185					190		_,
193			Ile	Leu	Lys	Ser	Leu	Glu	Glu		Leu	Lys	Val	Thr		Arg	Ser	Thr
194					195					200					205			

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Arg Gln Thr 195 196

VERIFICATION SUMMARY

DATE: 08/04/2004

PATENT APPLICATION: US/10/828,343 TIME: 12:30:02

L:22	M:220	C:	Keyword	misspelled	or	invalid	format,	[(A) APPLICATION NUMBER:]
								[(B) FILING DATE:]
L:29	M:220	C:	Keyword	misspelled	or	invalid	format,	[(vii) PRIOR APPLICATION DATA:]
L:32	M:220	C:	Keyword	misspelled	or	invalid	format,	[(viii) ATTORNEY/AGENT INFORMATION:]
L:36	M:220	C:	Keyword	${\tt misspelled}$	or	invalid	format,	[(ix) TELECOMMUNICATION INFORMATION:]